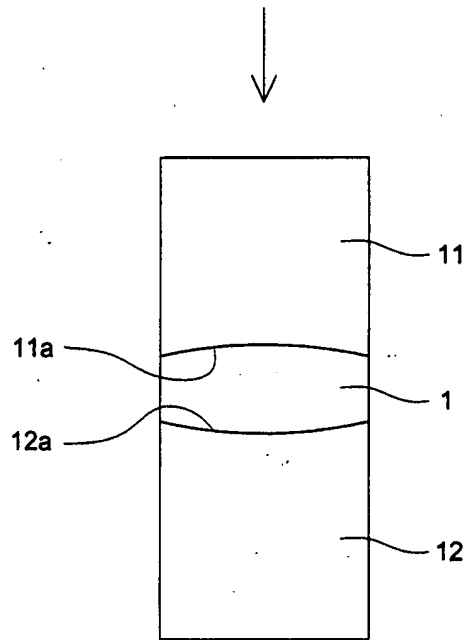
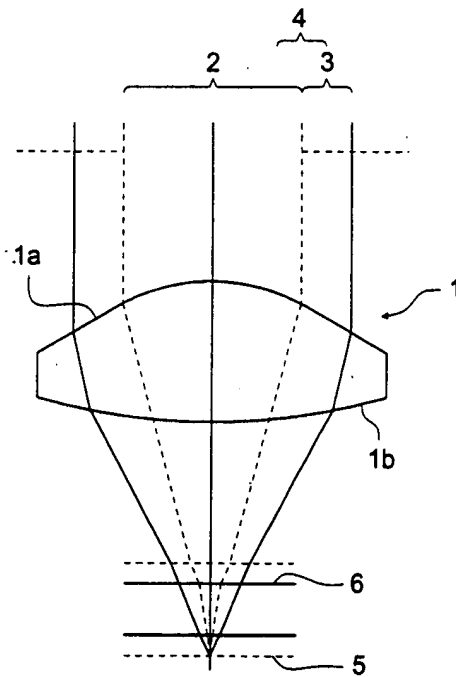


FIG. 1



008260" 65807960

FIG. 2



008260" 6E807960

008260" 68807950

1 μ m

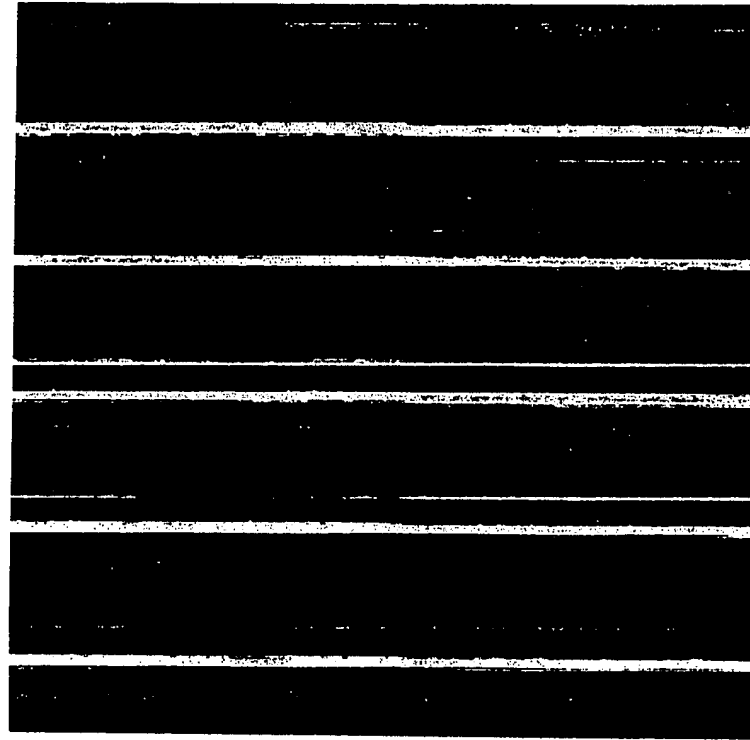


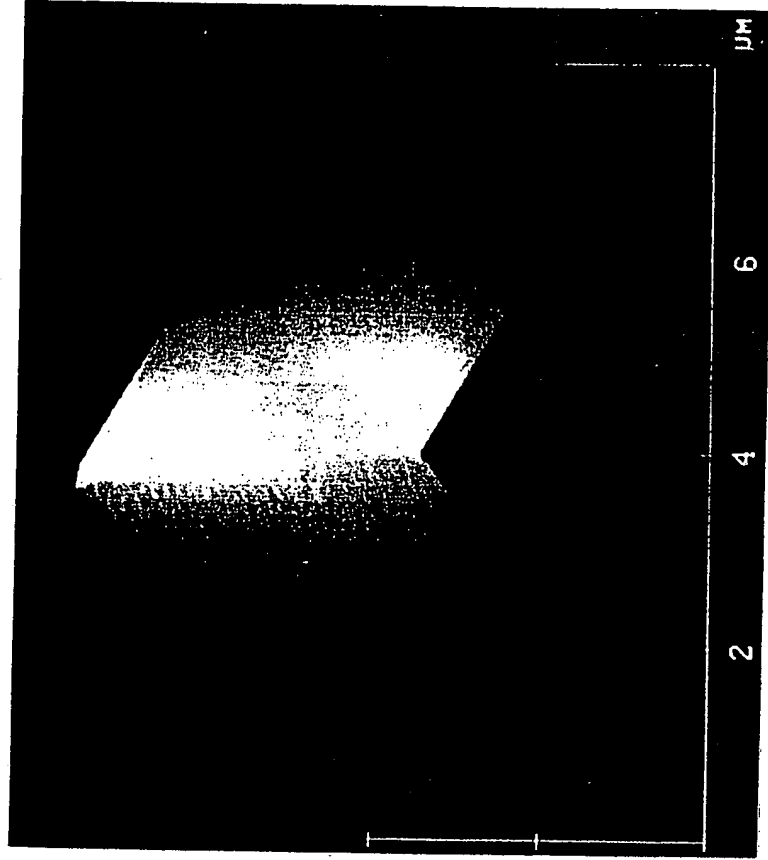
FIG. 3

Cut new mold material after 3 km length cutting

008260" 65807960

1 μ m

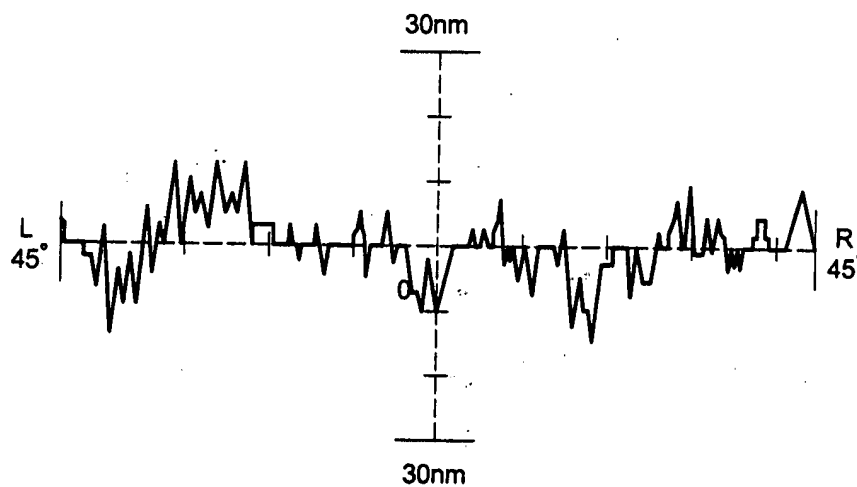
FIG. 4



Diamond tool cutting edge after 3 km length new mold material cutting

FIG. 5

008260" 6E807960



008260" 65807960

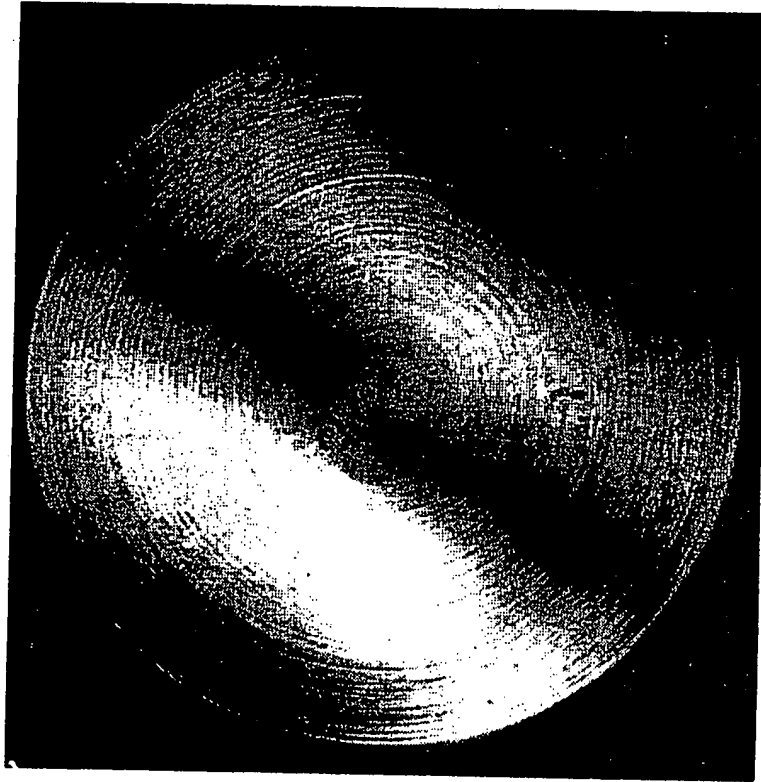
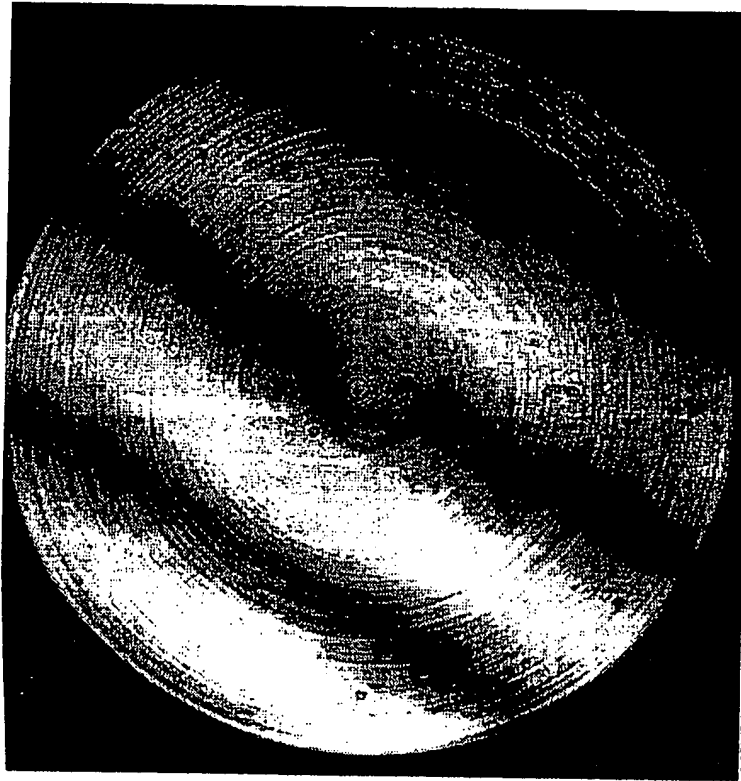


FIG. 6

Interferogram of cut Aluminum sphere
by new diamond turning machine

008260" 6E807960

FIG. 7



Interferogram of cut Al sphere after 6 hours
by new diamond turning machine

FIG. 8

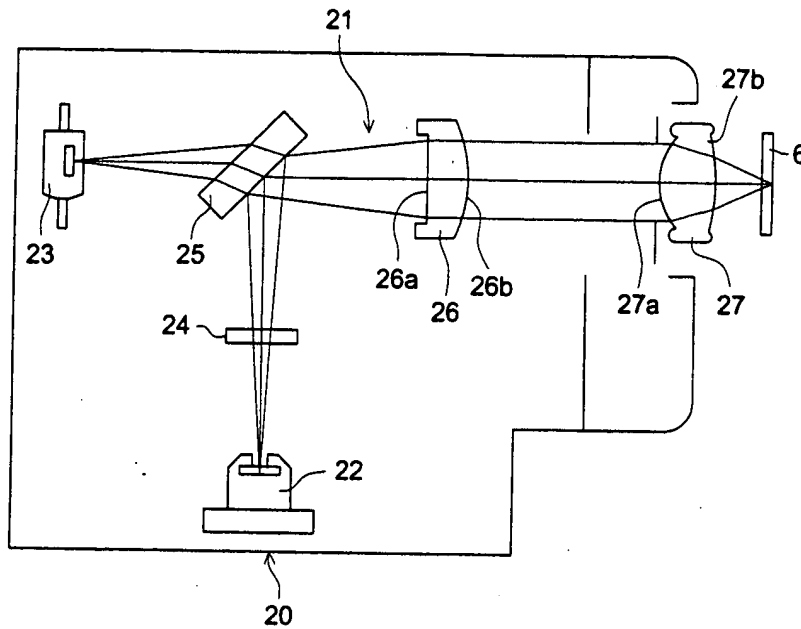
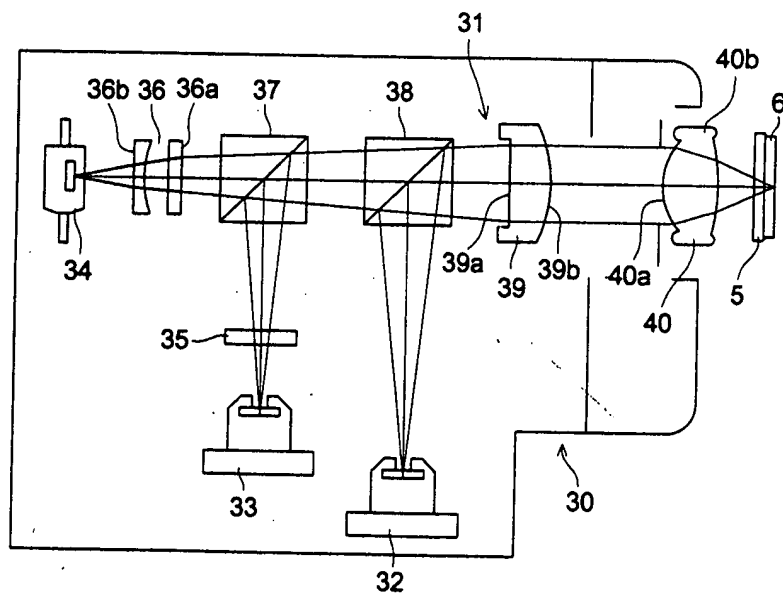


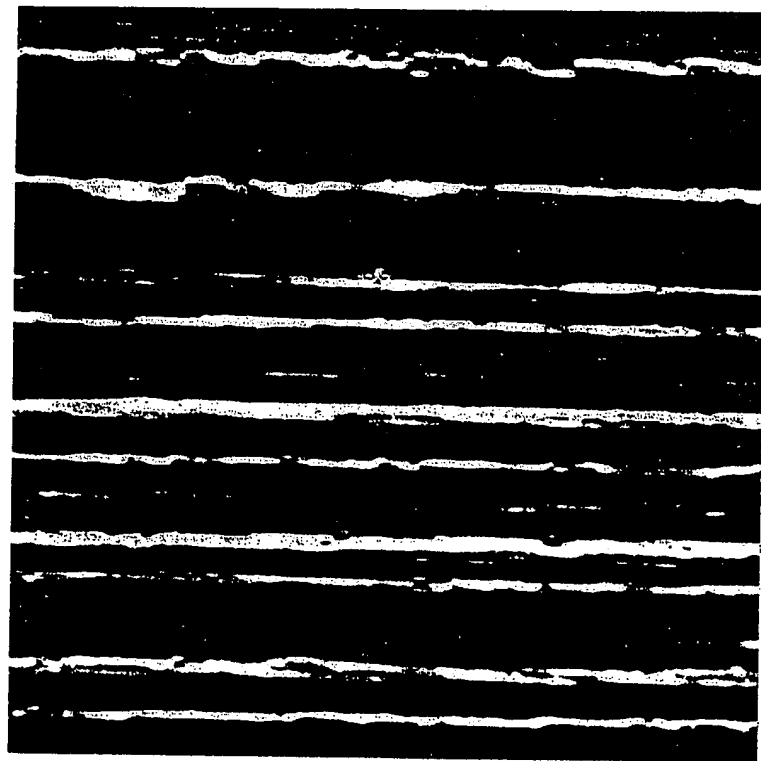
FIG. 9



000000-000000

008260" 58807960

1 μ m



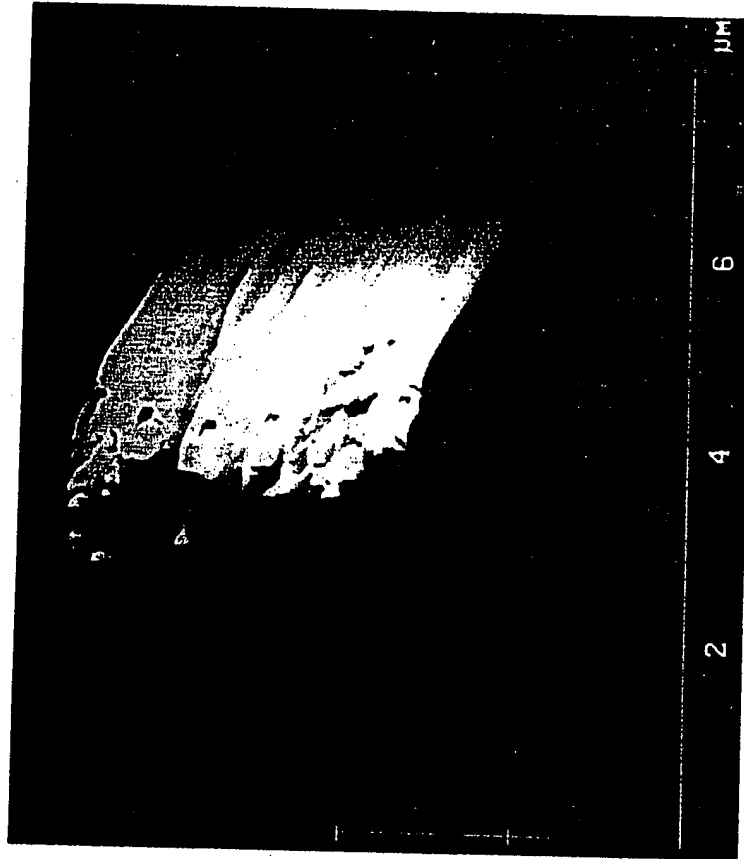
Cut ENP surface after 3 km length cutting

FIG. 10

008260" 6E807950

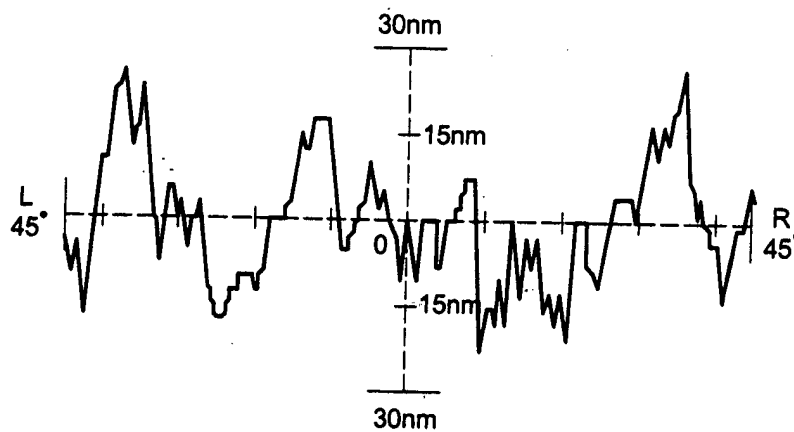
1 μ m

FIG. 11



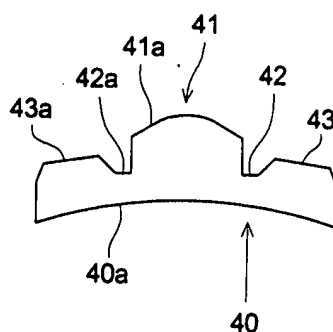
Diamond tool cutting edge after 3 km length ENP cutting

FIG. 12



008260" 6E807960

FIG. 13



008260" 65807960